

Introducing Cisco Unified Computing System (DCIUCS) v1.0

What you'll learn in this course

The **Introducing Cisco Unified Computing System (DCIUCS) v1.0** is an introductory course that shows you how to deploy, secure, operate, and maintain the Cisco Unified Computing system (Cisco UCS®) B-Series blade servers, Cisco UCS C-Series and S-Series rack servers, and Cisco HyperFlex™ product family for use in data centers. You will gain hands-on practice on basic Cisco UCS server configuration, performing backup and restore activities, and more.

Course duration

- Instructor-led training: 2 days in the classroom with hands-on lab practice
- Virtual instructor-led training: 2 days of web-based classes with hands-on lab practice
- E-learning: Equivalent of 2 days of instruction with videos, practice, and challenges

How you'll benefit

This course will help you:

- Learn how to implement and maintain Cisco UCS servers
- Gain knowledge and skills through Cisco's unique combination of lessons and hands-on practice using enterprise-grade Cisco learning technologies, data center equipment, and software
- Prepare for data center job roles

Who should enroll

- Server administrators
- Network engineers
- Systems engineers
- Consulting systems engineers
- Technical solutions architects
- Network administrators
- Storage administrators
- Network managers
- Sales engineers
- Cisco integrators and partners

How to enroll

E-learning

- To buy a single e-learning license, visit the [Cisco Learning Network Store](#).
- For more than one license, or a learning library subscription, contact us at learning-bdm@cisco.com.

Instructor-led training

- Find a class at the [Cisco Learning Locator](#).
- Arrange training at your location through [Cisco Private Group Training](#).

Technology areas

- Data center

Course details

Objectives

After taking this course, you should be able to:

- Describe Cisco UCS server hardware
- Describe Cisco UCS connectivity
- Describe the Cisco HyperFlex Data Platform, its data writing and reading processes, and data optimization
- Describe and configure Cisco UCS service profiles
- Describe and configure Cisco UCS service profile templates
- Describe and implement Internet Small Computer Systems Interface (iSCSI) on Cisco UCS
- Describe and implement Cisco UCS firmware updates
- Describe and implement Cisco UCS backups

Prerequisites

To fully benefit from this course, you should have the following knowledge and skills:

- General knowledge of servers
- Routing and switching
- Storage area networking
- Server virtualization

These Cisco courses are recommended to help you meet these prerequisites:

- Implementing and Administering Cisco Solutions (CCNA®)
- Understanding Cisco Data Center Foundations (DCFNDU) v1.0
- Implementing and Operating Cisco Data Center Core Technologies (DCCOR)

Outline

- Describing Cisco UCS Server Hardware
 - Cisco UCS B-Series Blade Servers
 - Cisco UCS C-Series Rack Servers
 - Cisco UCS S-Series Rack Servers
 - Cisco Virtual Interface Cards
 - Hyperconvergence Overview
 - Cisco HyperFlex HX-Series Servers
- Describing Cisco UCS Connectivity
 - Cisco UCS Fabric Interconnect
 - Cisco UCS B-Series Connectivity
 - Cisco UCS C-Series Connectivity
 - Cisco UCS S-Series Connectivity
 - Cisco HyperFlex Connectivity Architecture
 - Cisco HyperFlex Edge Connectivity
 - Cisco UCS Fabric Interconnect Ethernet End-Host Mode Compared to Switching Mode
 - Cisco UCS Fabric Interconnect Uplink Pinning
 - Cisco UCS C-Series Integration
- Describing the Cisco HyperFlex HX Data Platform
 - Cisco HyperFlex HX Data Platform Software
 - Writing Data to Cisco HyperFlex HX Data Platform
 - Reading Data from Cisco HyperFlex HX Data Platform
 - Data Optimization in Cisco HyperFlex HX Data Platform
- Configuring Cisco UCS Service Profiles
 - Portability Issue with Nonabstracted Identities
 - Cisco UCS Service Profile
 - Identity Pools
 - Server Pools
 - IP Pools
- Configuring Cisco UCS Service Profile Templates
 - Service Profile Templates
- Implementing iSCSI on Cisco UCS
 - iSCSI Addressing
 - iSCSI Support in Cisco UCS

- Implementing Cisco UCS Firmware Updates
 - Update Cisco UCS C-Series Server Firmware
 - Download Tasks for the Infrastructure Image
 - Download Tasks for Cisco UCS B-Series Firmware Packages
 - Best Practices for Updating Firmware in Cisco UCS Manager
 - Firmware Upgrades Using Auto Install
 - Capability Catalog Updates
 - Host Firmware Packages
 - Driver Updates for Operating Systems and Hypervisors
- Implementing Cisco UCS Backups
 - Compare Backup Options in Cisco UCS Manager
 - Compare Two Import Types
 - Policy Backup

Lab outline

- Explore Cisco UCS Manager GUI
- Configure Server and Uplink Ports
- Configure VLANs
- Configure Basic Identity Pools
- Configure a Cisco UCS Service Profile Using Pools
- Configure a Service Profile Template
- Configure an iSCSI Service Profile on Cisco UCS
- Perform Backup and Restore Activities




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